

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2525 PAD

PEGGY 2525-02H

Plan B

Design #1

Anticollision Summary Report

13 November, 2021

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well PEGGY 2525-02H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4914.00usft (RIG)
Reference Site:	9N-60W-25 PEGGY 2525 PAD	MD Reference:	RKB = 20' @ 4914.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PEGGY 2525-02H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	11/13/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,575.00	Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	
1,575.00	11,641.06	Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
9N-60W-25 Offsets						
Shull 1-25-9-60 - Verdad Original Well - Actual Precision						Out of range
Shull 1-25-9-60 - Verdad PR Sidetrack Well - Actual Prec						Out of range
Shull 2-25-9-60 - Verdad PR Well - Actual Precision Surv						Out of range
Shull 3-25-9-60 - Verdad PR Well - Actual Precision Surv						Out of range
Shull 4-25-9-60 - Verdad Original Wellbore - Actual Preci						Out of range
Shull 4-25-9-60 - Verdad PR Sidetrack Well - Actual Prec						Out of range
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	163.54	153.56	1,422.34	1,414.80	188.576	CC, ES
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	700.00	505.00	1,483.34	1,475.18	181.768	SF
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	153.00	143.00	1,407.59	1,400.05	186.730	CC, ES
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	800.00	635.91	1,491.08	1,482.58	175.353	SF
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	285.44	282.16	1,392.67	1,385.04	182.619	CC, ES
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	1,100.00	1,073.26	1,499.31	1,489.59	154.176	SF
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	556.91	674.45	1,346.24	1,338.11	165.395	CC, ES
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	1,700.00	1,813.23	1,483.47	1,470.47	114.156	SF

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Offset Well - Wellbore - Design						
9N-60W-25 PEGGY 2501 PAD						
PEGGY 2501-01H - Verdad PR Well - Actual Baker Surve	378.19	384.38	63.59	55.82	8.184	CC
PEGGY 2501-01H - Verdad PR Well - Actual Baker Surve	400.00	406.46	63.62	55.82	8.157	ES
PEGGY 2501-01H - Verdad PR Well - Actual Baker Surve	1,600.00	1,619.38	130.87	113.42	7.500	SF
PEGGY 2501-02H - Verdad PR Well - Actual Baker Surve	274.34	278.46	84.37	76.72	11.041	CC, ES
PEGGY 2501-02H - Verdad PR Well - Actual Baker Surve	6,800.00	6,550.20	190.69	135.42	3.450	SF
PEGGY 2501-04H - Plan B - Design #1	270.00	266.00	100.77	93.15	13.218	CC, ES
PEGGY 2501-04H - Plan B - Design #1	6,400.00	6,471.46	447.38	406.63	10.977	SF
PEGGY 2501-06H - Plan B - Design #1	270.00	266.00	116.79	109.17	15.320	CC, ES
PEGGY 2501-06H - Plan B - Design #1	300.00	296.00	116.93	109.28	15.280	SF
PEGGY 2501-08H - Plan B - Design #1	270.00	265.00	132.79	125.16	17.419	CC, ES
PEGGY 2501-08H - Plan B - Design #1	300.00	295.00	132.93	125.28	17.372	SF
PEGGY 2501-10H - Plan B - Design #1	270.00	266.00	148.78	141.16	19.516	CC, ES
PEGGY 2501-10H - Plan B - Design #1	300.00	296.00	148.92	141.27	19.461	SF
PEGGY 2501-12H - Plan B - Design #1	270.00	266.00	164.78	157.15	21.614	CC, ES
PEGGY 2501-12H - Plan B - Design #1	400.00	395.96	167.45	159.68	21.539	SF
PEGGY 2501-14H - Plan B - Design #1	270.00	265.00	180.77	173.15	23.714	CC, ES
PEGGY 2501-14H - Plan B - Design #1	400.00	394.74	183.45	175.68	23.600	SF
PEGGY 2501-16H - Plan B - Design #1	200.00	194.00	196.77	189.20	26.002	CC, ES
PEGGY 2501-16H - Plan B - Design #1	270.00	259.99	197.40	189.78	25.909	SF
9N-60W-25 PEGGY 2525 PAD						
PEGGY 2525-01H - Plan B - Design #1	203.10	204.10	16.02	8.45	2.116	CC, ES
PEGGY 2525-01H - Plan B - Design #1	11,641.06	11,749.58	468.08	230.43	1.970	SF
PEGGY 2525-03H - Plan B - Design #1	270.00	270.00	16.00	8.37	2.098	CC, ES
PEGGY 2525-03H - Plan B - Design #1	11,641.06	11,513.16	467.98	234.22	2.002	SF
PEGGY 2525-04H - Plan B - Design #1	270.00	270.00	31.99	24.37	4.196	CC, ES
PEGGY 2525-04H - Plan B - Design #1	11,641.06	11,454.01	936.00	697.92	3.931	SF
PEGGY 2525-05H - Plan B - Design #1	295.13	295.52	47.71	40.06	6.241	CC
PEGGY 2525-05H - Plan B - Design #1	300.00	300.41	47.71	40.06	6.238	ES
PEGGY 2525-05H - Plan B - Design #1	11,641.06	11,412.21	1,404.00	1,165.63	5.890	SF

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Reference Depths are relative to RKB = 20' @ 4914.00usft (RIG)

Offset Depths are relative to Offset Datum

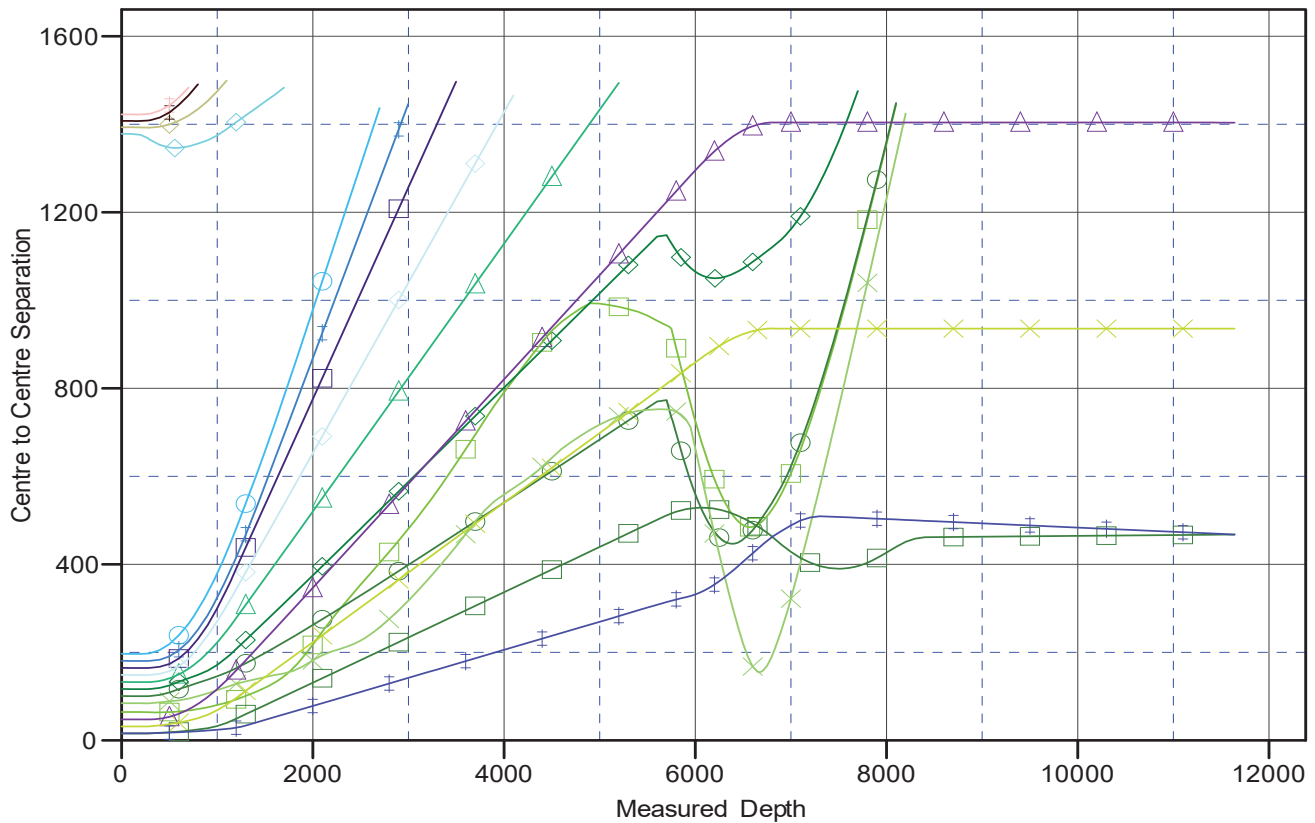
Central Meridian is -105.500000

Coordinates are relative to: PEGGY 2525-02H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.94°

Ladder Plot



LEGEND

Shull 7-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-01H, Verdad PR Well, Actual Baker Surveys V0	PEGGY 2501-10H, Plan B, Design#1 V0
Shull 8-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-04H, Plan B, Design#1 V0	PEGGY 2501-04H, Plan B, Design#1 V0
Shull 8-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-12H, Plan B, Design#1 V0	PEGGY 2501-03H, Plan B, Design#1 V0
Shull 5-25-960, Verdad PR Well, Actual Titan Surveys Old to True V0	PEGGY 2501-06H, Plan B, Design#1 V0	PEGGY 2501-09H, Plan B, Design#1 V0
PEGGY 2501-08H, Plan B, Design#1 V0	PEGGY 2501-16H, Plan B, Design#1 V0	PEGGY 2501-01H, Plan B, Design#1 V0
PEGGY 2501-14H, Plan B, Design#1 V0	PEGGY 2501-02H, Verdad PR Well, Actual Baker Surveys V0	

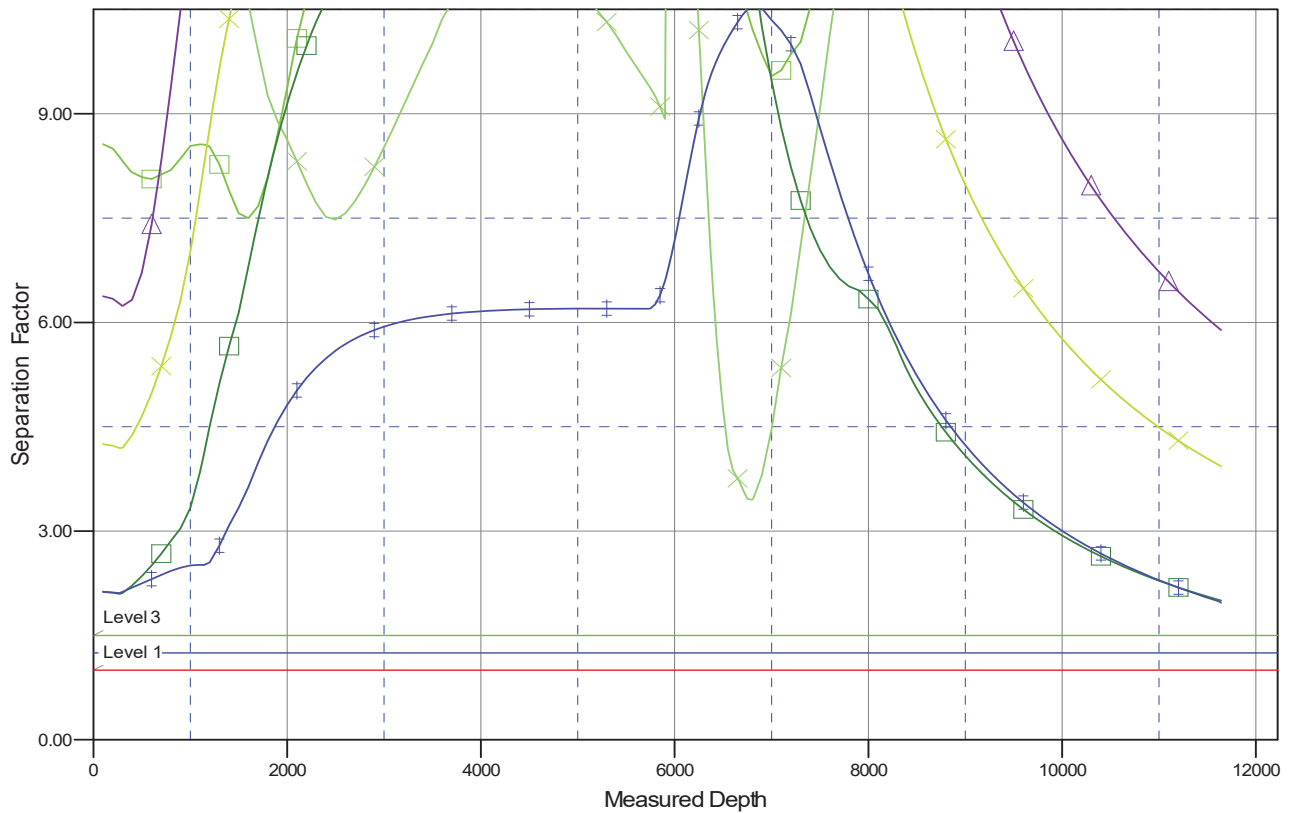
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Coordinates are relative to: PEGGY 2525-02H
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Grid Convergence at Surface is: 0.94°

Separation Factor Plot



LEGEND

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Shull 6-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2525-04H, Plan B, Design#1 V0	PEGGY 2525-04H, Plan B, Design#1 V0
Shull 6-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2525-12H, Plan B, Design#1 V0	PEGGY 2525-03H, Plan B, Design#1 V0
Shull 5-25-960, Verdad PR Well, Actual Titan Surveys Gld to True V0	PEGGY 2525-06H, Plan B, Design#1 V0	PEGGY 2525-09H, Plan B, Design#1 V0
PEGGY 2525-08H, Plan B, Design#1 V0	PEGGY 2525-16H, Plan B, Design#1 V0	PEGGY 2525-01H, Plan B, Design#1 V0
PEGGY 2525-14H, Plan B, Design#1 V0	PEGGY 2525-02H, Verdad PR Well, Actual Baker Surveys V0	